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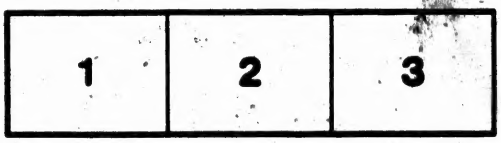

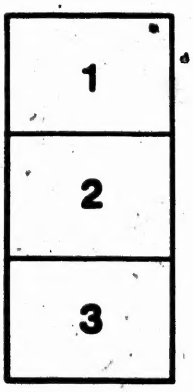

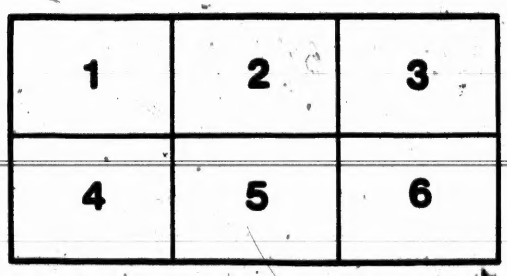

SPECIFICATION

Of Work required to be done in the Erection of an Engine and Boiler House for Stratford Water Works.

Mason and Brickwork.

Excavation. Excavate for foundations, &c., to the width and depth shewn on the drawings. Fill in around walls, and in the building to the height required for flooring. Grade the surplus soil on the grounds, as the Inspector may direct.

Concrete. The concrete to be composed of five of good gravel, to one of good fresh burnt Acton lime, or equal quality, thoroughly well mixed and incorporated together, and to be filled into the trenches the width and depth shewn on the drawings, to be levelled off on top.

Floor. The floor of engine room to be laid with 6 " concrete, and finished with 1 " Portland cement on top, well trowlled and made perfectly level.

Foundation. The foundation walls to be built with good flat bedded rubble stone, well bedded and bonded and thoroughly flushed with mortar. Large flat stones to be selected for footings. The exterior above the ground line to be hammer dressed, neatly pointed and tuck pointed with white putty mortar, on completion of the work.

Mortar. The mortar to be composed of three of good, clean, sharp sand, to one of good fresh burnt lime, of approved quality, thoroughly well mixed and incorporated together.

Walls. The wall above stone work to be built 13 " hollow wall, bonded every third brick, and every course as per sketch.

Angles, &c. Build nine inches solid at all angles and around all openings.

Bricks. The exterior and interior bricks to be selected of an uniform size and color and Joints neatly beaded with jointer and straight edge.

The bricks to be good hard well burnt white bricks, of an uniform size and color and of approved quality. All bricks to be thoroughly soaked in water before being laid in the walls.

Arches. Turn arches over all openings in a careful manner, the bricks to be cut to radiating lines, and neatly tuck pointed with putty mortar.

Insert band, strings courses, of colored bricks as shown on the drawings and as directed, to be neatly tuckpointed at completion of the work.

Setting. Set all window and door frames, sills, plates, bond timbers &c., and cut any openings that may be required for the passage of pipes &c.

Ornamentation. Build all projections shown and any ornamental brick work in a careful manner. All the work to be plumb true and straight and courses laid perfectly level, with joints filled with mortar.

Sills. The window sills to be 6 " x 9 " and the length shewn, weathered and throated. The door sills to be 6 " x 18 ", and the length shewn, all to be of the best Canadian sand stone and neatly tooled.

Coping, &c. The coping of gable (4 " x 17 ") finial and corbles, to be of stone neatly tooled and securely bolted, also moulding on chimney.

Chimnies. Build chimney for boilers as shewn, in the most thorough manner.

Boiler House Floor The floor of boiler House to be laid with brick on edge, to be well bedded on 3 " good sharp sand, and made perfectly level.

Date. The date stone to be sand stone, rubbed, and to have inscription cut on surface as directed, in a neat manner.

Carpenter & Joiner.

Lumber, &c. The lumber to be well seasoned pine lumber, free from large or bad knots, rot, sap, shakes or other imperfections, and the workmanship to be executed in the most workmanlike and substantial manner, to the entire satisfaction of the inspector.

Frames & Doors. The door frames to be 3 " x 10 " rebatted for doors and beaded both sides. The doors to be $2\frac{1}{2}$ " framed with panels 7/8 in. thick and 3 in. wide beaded joints, the frame of doors to be champed.

Windows, &c. The windows to be 2 in. solid with weather strip nailed on back and top, the sash to be $1\frac{3}{4}$ in. ovolo, with lifts, catches and fastenings, &c., complete.

Roof & Trusses. The roof to be constructed as shewn, the trusses, 2 in number, to be constructed with 6 x 6 in. tie beam and rafters, 4 x 6 in. braces, $\frac{3}{4}$ in. tie bolt, and $\frac{1}{2}$ in. foot bolts, purlins 6 x 6 in., common rafters 2 x 6 in., placed 24 in. centres, ridge, hips and valley rafters 2 x 12, all to be properly framed and put together.

Roof Covering. The roof to be covered with 1 in. dressed lumber, not more than 8 in. wide, laid close and nailed to every bearing, and covered with $\frac{3}{4}$ in. good hair mortar and covered with the best quality [illegible] purple slate 8 x 16 in., laid with a lap of three inches of the third over the first, well nailed with galvanized tinned nails, all nails to be covered. The hips and valleys to be cut so that the bond will be uniform. The valleys to be

Flashing. flashed with galvanized iron 18 in. wide, joints soldered. The hips and ridges to be step flashed with galvanized iron No. 26. Step and top flash around the chimneys and where else necessary, and make the whole roof perfectly wind and water tight.

Cornice, &c. The cornice and gutter to be constructed with galvanized iron No. 26, as shown on detail drawing, the joints soldered, the iron to extend 7 inches under slate, the gutter to have proper fall to outlet, and to be securely braced.

Conductors. The conductor pipes, three in number, to be of galvanized iron, 4" in diameter, and securely fixed to the wall with iron holdfasts, and have turn out at ground.

Cresting. The cresting to be of cast iron of approved design, and to be securely fixed and braced.

Dormers. The dormers to be constructed as shown, in a neat manner, and to be well flashed around.

Ceiling. The ceiling joist to be of 2 " x 6 ", placed 16 " centres, and sheeted with $\frac{3}{4}$ " matched and dressed sheeting, not more than 3 " wide, and well nailed to every bearing. Fix cove and moulding 6 " x 6 " in angles of ceilings.

Hardware. The hardware to be of approved quality, and to be extra heavy.

Painting and Glazing.

Knot, prime, stop with putty, and afterwards paint all the wood and iron work usually painted, including the inside of gutter, cresting, ridge, &c.

The ceiling to be shellaced twice, oiled and varnished.

The best white lead and linseed oil to be used in tints, to suit the Inspector.

The windows to be glazed with 16 oz. glass free from defects, well bedded and bradded, and left whole and clean on completion.

Each contractor shall deposit a certified cheque for five per cent. of the amount of his tender, which shall be retained by the Company should he refuse to sign a contract approved of by the Company's Solicitor. No tender will be considered unless accompanied with a cheque.

JOHN M. MOORE, C. E.,
London.